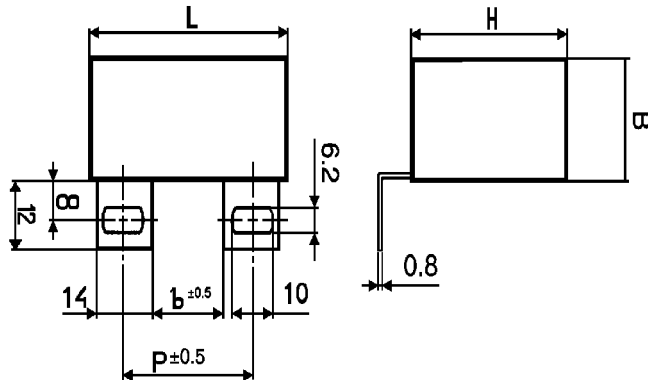


CAPACITORS FOR AC & PULSE APPLICATIONS

KPST 345/250



Construction:

Metalized film electrodes, polypropylene film dielectric, Non-inductive, self-healing construction, Plastic flame retardant case, epoxy resin sealed

Applications:

AC applications with high peak and RMS current loading, high pulse loading, snubber applications. Directly mount to the IGBT module or across the Bus,

Technical data

Rated voltage U_R : 250VDC

Rated voltage is the max. DC or peak voltage, for which the capacitor is designed.

If the capacitor works with the DC and also super-imposed AC voltage U_{AC} , the sum of DC and the amplitude of AC must not exceed the U_R

Max permissible AC voltage: 160V 50/60Hz,

If the working frequency is higher, the permissible AC voltage must be decreased, not to exceed the max. loss power of the capacitor.

$$U_{MAX} = \sqrt{\frac{P_L}{2\pi \times f \times C_R \times \text{tgD}}}$$

Capacitance C_R [μF]*	Dimensions *1 [mm]				
	B	H	L	p	P_L [W]
3,3	21	30	42,5	18 ÷ 25	1,6
4,7	28	37	42,5	18 ÷ 25	2
6,8	28	37	42,5	18 ÷ 25	2
10	30	45	42,5	18 ÷ 25	2,5
15	30	45	42,5	18 ÷ 25	2,5
22	40	50	42,5	18 ÷ 25	3

*Other capacitances available on request

Rated capacitance: 3,3 ÷ 22 μF

Tolerance: ±20%, ±10%, other tolerance on request

Dissipation factor $\text{Tg}\delta$: < 0,001 at 1kHz and +25°C

ESR: at 100kHz and +25°C < m Ω

Insulation resistance R_{IS} : 30 000/C [M Ω]

Operating temperature range: -40 ÷ +85°C on case

The highest permissible capacitor temperature at the hottest point of the case must not exceed +85°C.

Max. permitted dissipation power of the capacitor

P_L : depend on the cooling conditions

Test voltage between terminals: 2000VDC, 2min at +25°C,

All capacitors are tested by the routine test by the producer

Protection against Over voltages:

The capacitors are self-healing and regenerate themselves after occasional breakdowns. The capacitor remains fully functional after the breakdown.

Non Recurrent Surge Voltage:

U_{PK} 400V

If the Over voltages exceed the permissible value above, the capacitor might have been destroyed.

Test voltage between terminals and case:

2000VDC, 1min. at +25°C

Max. repetitive rate of voltage rise dU/dt :

< 25V/ μsec at U_R and +25°C

Max. peak current I_p : < $C_R \times dU/dt$

Related standards: IEC 60384-1

Marking for purchase ordering:

KPI345 15 μF ±10% 250V DC

Warning! The manufacturer is not responsible for any damages, caused by improper use or application. Before using the capacitor in any application, please, read carefully this technical data-sheet.